

CLAIMS

- a a
1. A nucleotide sequence constituted by the *Ha ds10 G1* gene, its promoter, *Ha ds10 G1* 5'- and 3' flanking sequences, wherein the nucleotide sequence is selected from the group consisting of identical nucleotide sequences identical to SEQ ID NO:1, first homologous nucleotide sequences being homologous by at least 70% to SEQ ID NO:1, second homologous nucleotide sequences being homologous being at least 70% homologous to complementary sequences to SEQ ID NO:1, and fragments thereof.
- 10 2. A nucleotide sequence according to claim 1, wherein the first homologous sequence is homologous by at least 80% to SEQ ID NO:1.
- 15 3. A nucleotide sequence according to claim 1, wherein the first homologous sequence is homologous by less than 95% to SEQ ID NO:1.
- 20 4. A nucleotide sequence, wherein the second homologous sequence is homologous by at least 80% to SEQ ID NO:1.
- 25 5. A nucleotide sequence according to claim 1, wherein the second homologous sequence is homologous by less than 95% to SEQ ID NO:1.
- 30 6. A nucleotide sequence according to any of the claims 1 to 6, and further including a chimeric gene.
7. A nucleotide sequence according to claim 6, suitable for expression of a chimeric gene.
8. A nucleotide sequence according to claim 7, wherein the chimeric gene is specific of seeds from early maturation stages.
- 35 9. A nucleotide sequence according to claim 8, constituted by constructions ds10F1, ds10F2, ds102Δ, ds10F3 and ds10EC1 or part thereof.
10. A nucleotide sequence according to claim 10, including *Ha ds10 G1* gene coding and 3'-flanking sequences.

11. A nucleotide sequence according to claim 10, including ds10F2 and
ds10F2 Δ in constructions.
- 5 12. A nucleotide sequence according to claim 8, including *Ha* ds10 G1 gene
coding and intron sequences.
- 10 13. A nucleotide sequence according to claim 12, contained in constructions
ds10F3.
14. An expression cassette including a nucleotide sequence according to any
of claims 1 to 13 and a chimeric gene.
15. A vector including an expression cassette according to claim 14.
16. Host cells including a nucleotide sequence according to any of claims 14
to 15.
17. Use of nucleotide sequences as defined in any of claims 1 to 15, in the
specific expression of chimeric genes in seeds, seed parts, seed extract, seed
embryos and seedling tissues.
18. Use of nucleotide sequences as defined in any of claims 9 to 11 for
increasing the expression of chimeric genes specifically in transgenic plant
seeds.
19. Use of nucleotide sequences as defined in any of claims 11 to 13 for
increasing the expression of chimeric genes in seeds and/or reduce it in other
tissues.
20. A transgenic plant transformed by a nucleotide sequence according to any
of claims 1 to 15.
21. A transgenic plant according to claim 20, selected from sunflower,
tobacco, soya, oilseed rape, "canola", maize, wheat, barley, rice, bean, cassava

and peanut.

- a* 22. Use of a transgenic plant according to ~~any of claims 20 to 24~~ for the production of substances resulting from the expression of chimeric genes.

5

23. Use of a transgenic plant according to claim 22 wherein the substances are proteins, bioactive substances and oils.

a 24. Substances obtained according to ~~any of claims 23 and 24~~.

□ 9 16 10 10 13 14 15